



06-30-03

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**In re Application of:**

Moden et al.

**Serial No.:** 09/942,323

**Filed:** August 29, 2001

**For:** METHOD FOR APPLYING  
ADHESIVES TO A LEAD FRAME (as  
amended)

**Confirmation No.:** 9742

**Examiner:** H. Lee

**Group Art Unit:** 2823

**Attorney Docket No.:** 2269-3089.2US  
(96-0734.02/US)

**Notice of Allowance Mailed:**

April 1, 2003

**Express Mail Mailing Label No.:** EV 348044940 US

**Date of Deposit with USPS:** June 27, 2003

**Person making Deposit:** Matthew Wooton

**TRANSMITTAL LETTER**

Mail Stop Issue Fee  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

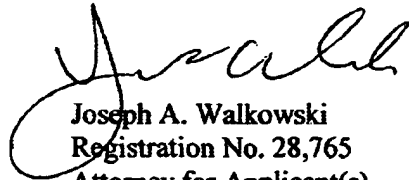
Applicants submit herewith Part B - Fee(s) Transmittal for the above-captioned application and a check in the amount of \$1,615.00 in payment for the issue fee, the publication fee, and five (5) copies of the patent when issued.

Also, enclosed is an Amendment Pursuant to 37 C.F.R. § 1.312(a) (85 pages), plus attached Replacement Drawing (1 sheet) and second copy of March 17, 2003 Supplemental

Information Disclosure Statement, PTO-1449, and USPTO date-stamped postcard; Comments on Statement of Reasons for Allowance(4 pages); and Fee Addressee for Receipt of PTO Notices Relating to Maintenance Fees (2 pages).

Applicants understand that no additional fees are required. However, if the Office determines that any comparison fees or other additional fees are required, the Commissioner is authorized to charge any such fees to TraskBritt Deposit Account No. 20-1469. A copy of this Transmittal Letter is enclosed for deposit account charging purposes.

Respectfully submitted,



Joseph A. Walkowski  
Registration No. 28,765  
Attorney for Applicant(s)  
TRASKBRITT  
P.O. Box 2550  
Salt Lake City, Utah 84110-2550  
Telephone: 801-532-1922

Date: June 27, 2003  
JAW/ps:ljb

Enclosures: Part B - Issue Fee Transmittal  
Check No. 19065 in the amount of \$1,615.00  
Copy of Transmittal Letter  
Amendment Pursuant to 37 C.F.R. § 1.312(a) (85 pages)  
Replacement Drawing (1 sheet)  
Second copy of March 17, 2003 Supplemental Information Disclosure Statement,  
PTO-1449, and USPTO date-stamped postcard  
Comments on Statement of Reasons for Allowance(4 pages)  
Fee Addressee for Receipt of PTO Notices Relating to Maintenance Fees (2 pages)

Document in ProLaw

## PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: **Mail** Box ISSUE FEE  
 Commissioner for Patents  
 Washington, D.C. 20231  
**Fax** (703)746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

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24247

7590

04/01/2003

TRASK BRITT  
 P.O. BOX 2550  
 SALT LAKE CITY, UT 84110

Express Mail Mailing Label No.: **EV 348044940 US**

Date of Deposit with USPS: **June 27, 2003**

Person making Deposit: **Matthew Wooton**

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/942,323	08/29/2001	Walter L. Moden	3089.2US (96-0734.2)	9742

TITLE OF INVENTION: METHOD AND APPARATUS FOR APPLYING ADHESIVES TO A LEAD FRAME

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1300	\$300	\$1600	07/01/2003

EXAMINER	ART UNIT	CLASS-SUBCLASS
LEE, HSIEN MING	2823	438-015000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☒ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 **TraskBritt**

2

3

### 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

**MICRON TECHNOLOGY, INC.**

**Boise, Idaho**

Please check the appropriate assignee category or categories (will not be printed on the patent) ☐ individual ☒ corporation or other private group entity ☐ government

4a. The following fee(s) are enclosed:

☒ Issue Fee

☒ Publication Fee

☒ Advance Order - # of Copies **5**

4b. Payment of Fee(s):

☒ A check in the amount of the fee(s) is enclosed.

☐ Payment by credit card. Form PTO-2038 is attached.

☒ The Commissioner is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number **20-1469** (enclose an extra copy of this form).

Commissioner for Patents is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above.

(Authorized Signature)

(Date) **6/27/2003**

**Joseph A. Walkowski, Reg. No. 28,765**

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, D.C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

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PTOL-85 (REV. 04-02) Approved for use through 01/31/2004. OMB 0651-0033

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE



**PATENT**

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**COMMENTS ON STATEMENT OF REASONS FOR ALLOWANCE**

Mail Stop ISSUE FEE  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In the Office Action dated October 15, 2002, the Examiner noted claims 34-65 were allowable and claims 5-8 and 10-33 would be allowable is rewritten in independent form. The Examiner stated:

The prior art of record, Moden (US 5,733,800), teaches the claimed method as recited in claims 1-4 and 9 as stated above, but at least neither teaches nor suggests: (1) biasing the semiconductor component downward proximate the

viscous material in the viscous material pool; (2) providing one of a hydraulic biasing mechanism, pneumatic biasing mechanism, and electrically powered biasing mechanism configured to place the one semiconductor component proximate the viscous material; (3) raising the viscous material pool upward proximate the semiconductor component; (4) leveling the exposed surface of the viscous material prior to wetting a specific location of the semiconductor component; and (5) exposing the exposed surface of the viscous material, the exposed surface of the viscous material having a height that extends above the height of the at least one peripheral edge.

Applicants disagree with the statement that the Moden reference (US 5,733,800) teaches the claimed method as recited in claims 1-4 and 9. Applicants refer to the statements expressed during prosecution of the application herein and the subsequent allowability of claims 1-4 and 9.

Applicants concur with the remaining reasons as stated by the Examiner insofar as they comprise a summary, and are exemplary and not limiting. Each of the independent claims include additional features and elements that are not addressed in the statement of reasons for allowance. Each of the dependent claims include further elements and features not addressed by the Examiner. Accordingly, the scope of the claims must be determined from each as a whole and equivalents therefrom. Furthermore, applicants have noted additional reasons for allowability during the prosecution of the application herein.

In the Notice of Allowability, the Examiner stated:

The prior art of record, Moden to US 5,733,800, in Figs. 2A-2B teaches a method for applying viscous material to at least one semiconductor component, the method comprising:

- providing a pool 36 (i.e. sprue) containing heated resin material 30, the heated resin material pool 36 shaped such that an exposed surface of the heated resin material 30 is located in a precise location (i.e. the bottom 38 of the pool 36) and including at least one upward facing opening (i.e. the opening facing a plunger 32), the at least upward facing opening exposing at least the exposed surface of the heated resin material 30 (Fig. 2A);
- melting the heated resin material 30 by forcing the plunger 32 downward to the pool 36 form a viscous resin material 30 (Fig. 2B); and

- forcing the viscous resin material 30 flowing through the bottom 38 of the pool 36 and into the cavity 44 of one semiconductor component 100.

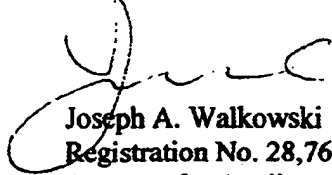
In contrast, the prior art of record at least neither teaches nor suggests: (1) aligning at least one semiconductor component over the viscous material pool; (2) wetting a specific location of the at least one semiconductor component with the viscous material; (1) biasing the semiconductor component downward proximate the viscous material in the viscous material pool; (2) providing one of a hydraulic biasing mechanism, pneumatic biasing mechanism, and electrically powered biasing mechanism configured to place the one semiconductor component proximate the viscous material; (3) raising the viscous material pool upward proximate the semiconductor component; (4) leveling the exposed surface of the viscous material prior to wetting a specific location of the semiconductor component; and (5) exposing the exposed surface of the viscous material, the exposed surface of the viscous material having a height that extends above the height of the at least one peripheral edge.

Therefore, the claimed invention is neither anticipated nor rendered obvious over the prior art of record.

With respect to the Examiner's characterization of Moden (U.S. 5,733,800), applicants refer to the arguments and statements made during prosecution of the application herein. Applicants agree with the Examiner's statement of reasons for allowance in so far as the reasons are exemplary and not comprehensive. Each of the independent claims include additional features and elements that are not addressed in the statement of reasons for allowance. Each of the dependent claims include further elements and features not addressed by the Examiner. Accordingly, the scope of the claims must be determined from each as a whole and equivalents therefrom. Furthermore, applicants have noted additional reasons for allowability during the prosecution of the application herein.

Serial No. 09/942,323

Respectfully submitted,



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